Online Order

Easy Level:

Entities:

1. Customer

- customer\_id (Primary Key)

- name

- email

- address

2. Order

- order\_id (Primary Key)

- customer\_id (Foreign Key)

- order\_date

Medium Level:

Entities:

1. Customer

- customer\_id (Primary Key)

- name

- email

2. Order

- order\_id (Primary Key)

- customer\_id (Foreign Key)

- order\_date

3. OrderItem

- order\_item\_id (Primary Key)

- order\_id (Foreign Key)

- product\_id (Foreign Key)

- quantity

4. Product

- product\_id (Primary Key)

- name

- price

Hard Level:

Entities:

1. Customer

- customer\_id (Primary Key)

- name

- email

2. Order

- order\_id (Primary Key)

- customer\_id (Foreign Key)

- order\_date

3. OrderItem

- order\_item\_id (Primary Key)

- order\_id (Foreign Key)

- product\_id (Foreign Key)

- quantity

4. Product

- product\_id (Primary Key)

- name

- price

5. Category

- category\_id (Primary Key)

- name

6. ProductCategory

- product\_id (Foreign Key)

- category\_id (Foreign Key)

Answers:

Easy Level:

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

name VARCHAR(255),

email VARCHAR(255),

address VARCHAR(255)

);

CREATE TABLE orders (

order\_id INT PRIMARY KEY,

customer\_id INT,

order\_date DATE,

FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

);

Medium Level:

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

name VARCHAR(255),

email VARCHAR(255)

);

CREATE TABLE orders (

order\_id INT PRIMARY KEY,

customer\_id INT,

order\_date DATE,

FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

);

CREATE TABLE order\_items (

order\_item\_id INT PRIMARY KEY,

order\_id INT,

product\_id INT,

quantity INT,

FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

FOREIGN KEY (product\_id) REFERENCES products(product\_id)

);

CREATE TABLE products (

product\_id INT PRIMARY KEY,

name VARCHAR(255),

price DECIMAL(8, 2)

);

Hard Level:

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

name VARCHAR(255),

email VARCHAR(255)

);

CREATE TABLE orders (

order\_id INT PRIMARY KEY,

customer\_id INT,

order\_date DATE,

FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

);

CREATE TABLE order\_items (

order\_item\_id INT PRIMARY KEY,

order\_id INT,

product\_id INT,

quantity INT,

FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

FOREIGN KEY (product\_id) REFERENCES products(product\_id)

);

CREATE TABLE products (

product\_id INT PRIMARY KEY,

name VARCHAR(255),

price DECIMAL(8, 2)

);

CREATE TABLE categories (

category\_id INT PRIMARY KEY,

name VARCHAR(255)

);

CREATE TABLE product\_categories (

product\_id INT,

category\_id INT,

FOREIGN KEY (product\_id) REFERENCES products(product\_id),

FOREIGN KEY (category\_id) REFERENCES categories(category\_id)

);

**--- Weekend Task ---**

**Task 1: Library Management System**

**Task 2: Social Media Platform**

**Good luck with your database design practice! 🙂**